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动物分类学报

ONE NEW DRACONARIUS SPECIES (ARANEAE, AMAUROBIIDAE) FROM HAINAN ISLAND, CHINA

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Abstract One new Draconarius species from Hainan Island is described: Draconarius jianfenglingensis. The female of this species differs from all other congenic species by its reduced , slit-shaped atrium. The type specimens are deposited in the Institute of Zoology , Chinese Academy of Sciences in Beijing (IZCAS).

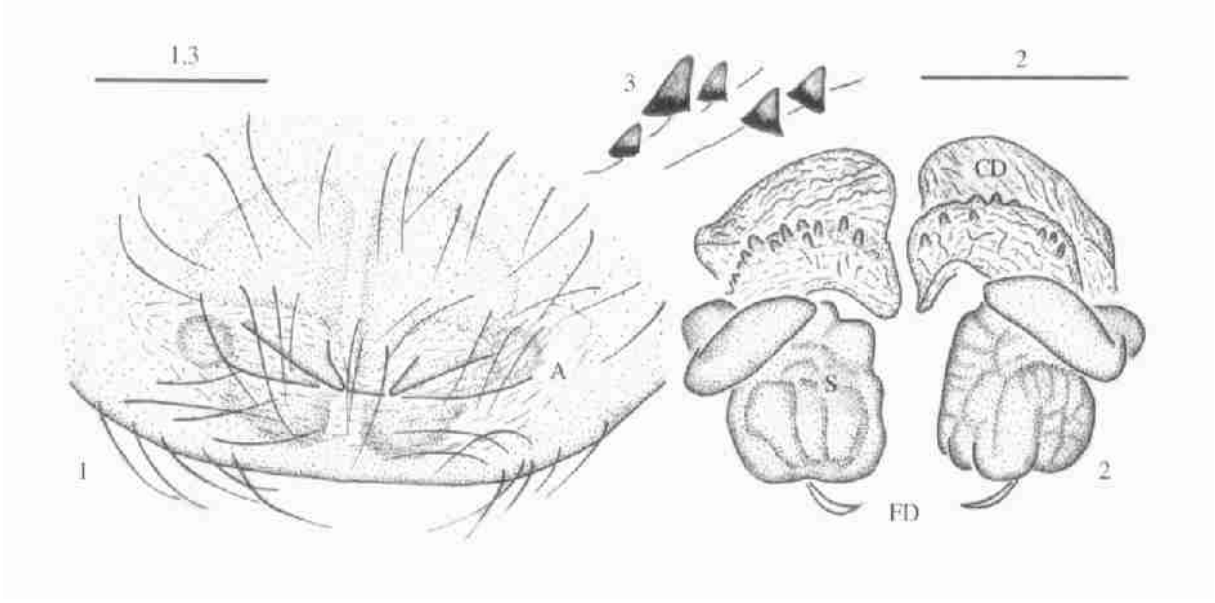
Key words Coelotinae , new species , China , atrium.

Draconarius is one of the most diverse genera in the subfamily Coelotinae. At present a total of 145 Draconarius species are known worldwide , among which 105 are recorded from China (Platnick , 2009).

Hainan Island , located at the southernmost part of China , has an area of 34 000 sq km , an average temperature between 22 and 26 degrees centigrade and an annual rainfall of 1 600 to 2 000 millimeters. Due to a restricted island distribution and active speciation , Hainan Island is well known for the high endemicity levels exhibited by many taxa (Song et al. , 2002).

An extensive faunal survey from Hainan Island over a period of five years (2007-2011) is being carried out by the colleagues of Chinese Academy of Sciences. Recent fieldwork yielded one new species of the genus Draconarius which is described in this paper.

Specimens were examined with an Olympus SZ11 stereomicroscope; details were studied with an Olympus BX41 compound microscope. All illustrations were made using an Olympus drawing tube. Male palps and female epigyna were examined and illustrated after being dissected from the spider bodies. All measurements were obtained using an Olympus SZ11 stereomicroscope and are given in millimeters. Eye diameters are taken at the widest point. The total body length does not include the length of the chelicerae or spinnerets. Leg measurements are given as: Total length (femur , patella + tibia , metatarsus , tarsus). The terminology used in text and figure legends follows Wang (2002). Abbreviations used in text and legends: A = atrium; ALE = anterior lateral eye; AME = anterior median eye; AME-ALE = distance between AME and ALE; AME-AME = distance between AME and AME; ALE-PLE = distance between



Figs. 1-3. Draconarius jianfenglingensis sp. nov. 1. Female epigynum , ventral view. 2. Female vulva , dorsal view. 3. Female cheliceral teeth , ventral view.

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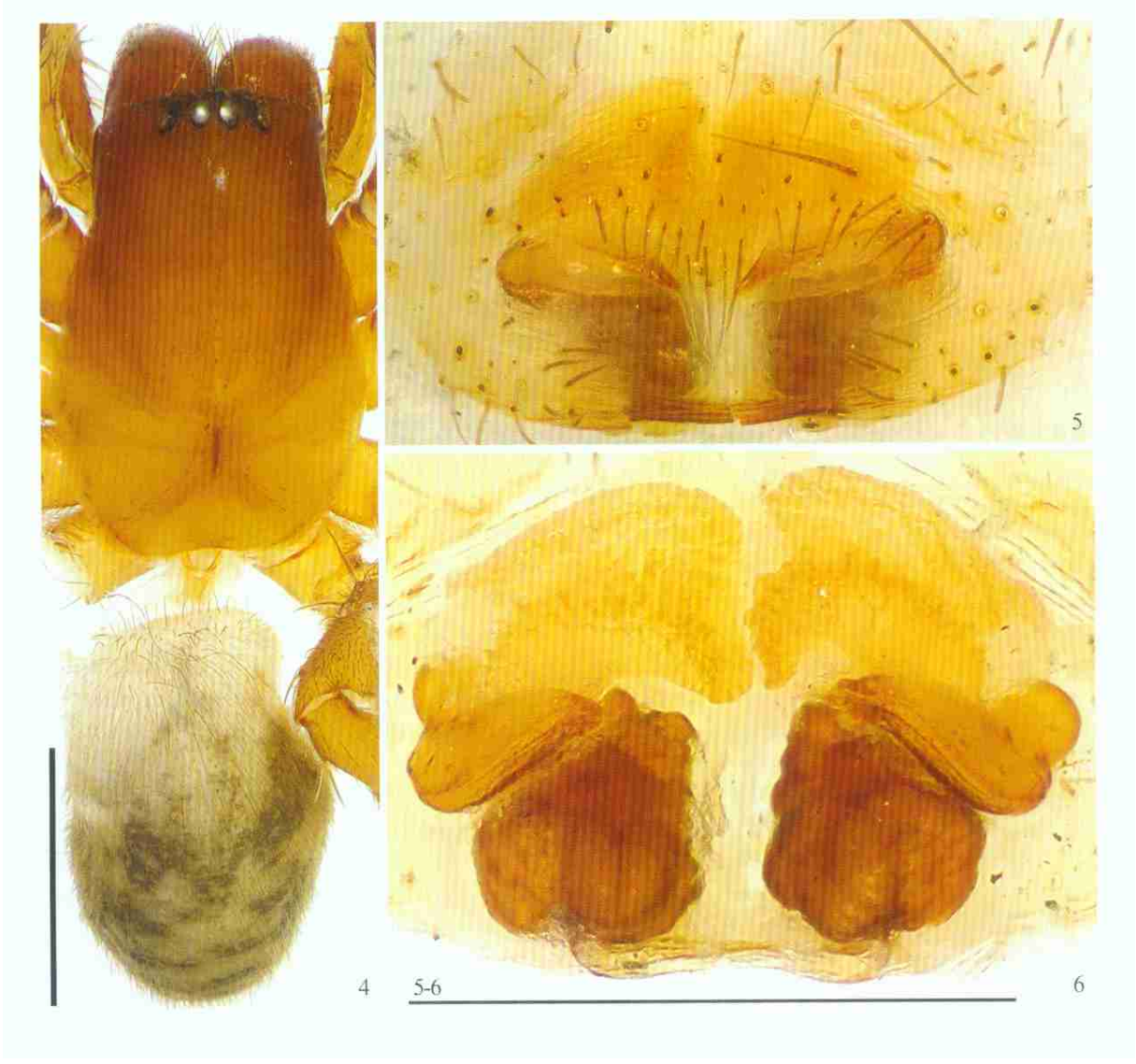
ALE and PLE; CD = copulatory duct; FD = fertilization duct; PLE = posterior lateral eye; PME = posterior median eye; PME-PLE = distance between PME and PLE; PME-PME = distance between PME and PME; S = spermatheca.

All types are deposited in the Institute of Zoology, Chinese Academy of Sciences in Beijing (IZCAS). Type specimen photos of the species included in this paper can be viewed from website "Endemic Spiders in China" which was created and maintained by LI Shu-Qiang and WANG Xin-Ping (Li & Wang, 2009).



Figs. 4-6. Draconarius jianfenglingensis sp. nov. 4. Female habitus, dorsal view. 5. Female epigynum, ventral view. 6. Female vulva, dorsal view. Scale bars: 4 = 1 mm, 5-6 = 0.5 mm

Draconarius jianfenglingensis sp. nov. (Figs. 1-6)

Type material. Holotype female, China, Hainan Island, Jianfengling Nature Reserve (18°44′N, 108°51′E; alt. 839m), 19 July 2007, leg. LI Shu-Qiang, WANG Chun-Xia and XU Jian-Jun. Paratypes: 3 females, data as holotype.

Etymology. The specific name is an adjective, referring to the type locality.

Diagnosis. Female of this new species can be distinguished from other congenic species by the reduced, slit-shaped atrium and the large wrinkle-shaped copulatorary ducts.

Description of female (holotype). Total length 4.85. Prosoma length 2.60, width 1.75; Opisthosoma length 2.25, width 1.50. Eye measurements: AME 0.06; ALE 0.13; PME 0.10; PLE 0.13; AME-AME 0; AME-ALE 0; ALE-PLE 0; PME-PME 0.041; PME-PLE 0.05. Clypeus height 0.10. Leg formula: **IV**, **I**, **II**, **III**; leg measurements: **I**: 5.80 (1.75, 2.00, 1.25, 0.80); **II**: 4.90 (1.50, 1.65, 1.10, 0.65); **III**: 4.45 (1.25, 1.40, 1.20, 0.60); **IV**: 6.30 (1.65, 2.20, 1.60, 0.85). Chelicerae with three promarginal and two retromarginal teeth. Epigynal teeth present, with sharp distal end, moderately separated by less than atrial

width; atrium reduced to a slit, situated posteriorly at level between epigynal hoods and epigastric furrow; copulatory ducts large, wrinkle-shaped, originating posteriorly and extending anteriorly; spermathecal heads small, covered mostly by copulatory ducts from dorsal view, situated anteriorly on spermathecae; spermathecae large, strongly convoluted, and moderately separated (Figs. 1-6).

Distribution. China (Hunan).

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海南隙蛛亚科龙角蛛属一新种记述 (蜘蛛目, 暗蛛科)

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摘 要 描述了采自海南岛隙蛛亚科蜘蛛 1 新种: Draconarius jianfenglingensis sp. nov., **本种与同属其它种类的区别在于: 生殖腔退化成一线状。**

尖峰岭龙角蛛, 新种 Draconarius jianfenglingensis sp. nov. (图 1～6)

正模 ♀, **海南岛尖峰岭自然保护区**, 2007-07-19, **李枢强, 王春霞, 许建军采; 副模** 3 ♀♀, **采集信息同上。**

词源: 新种种名取自模式标本产地。

关键词 **隙蛛亚科, 新种, 中国, 交媾腔.**

中图分类号 Q959.226

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